

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P623759

Luminaire Tested: **IFLD-S-SA3B-827-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623759
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-827-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	13042.2 lumens	Max Intensity:	15938.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	106.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		

Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	6482.3 lumens	Field Lumens:	8430.4 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

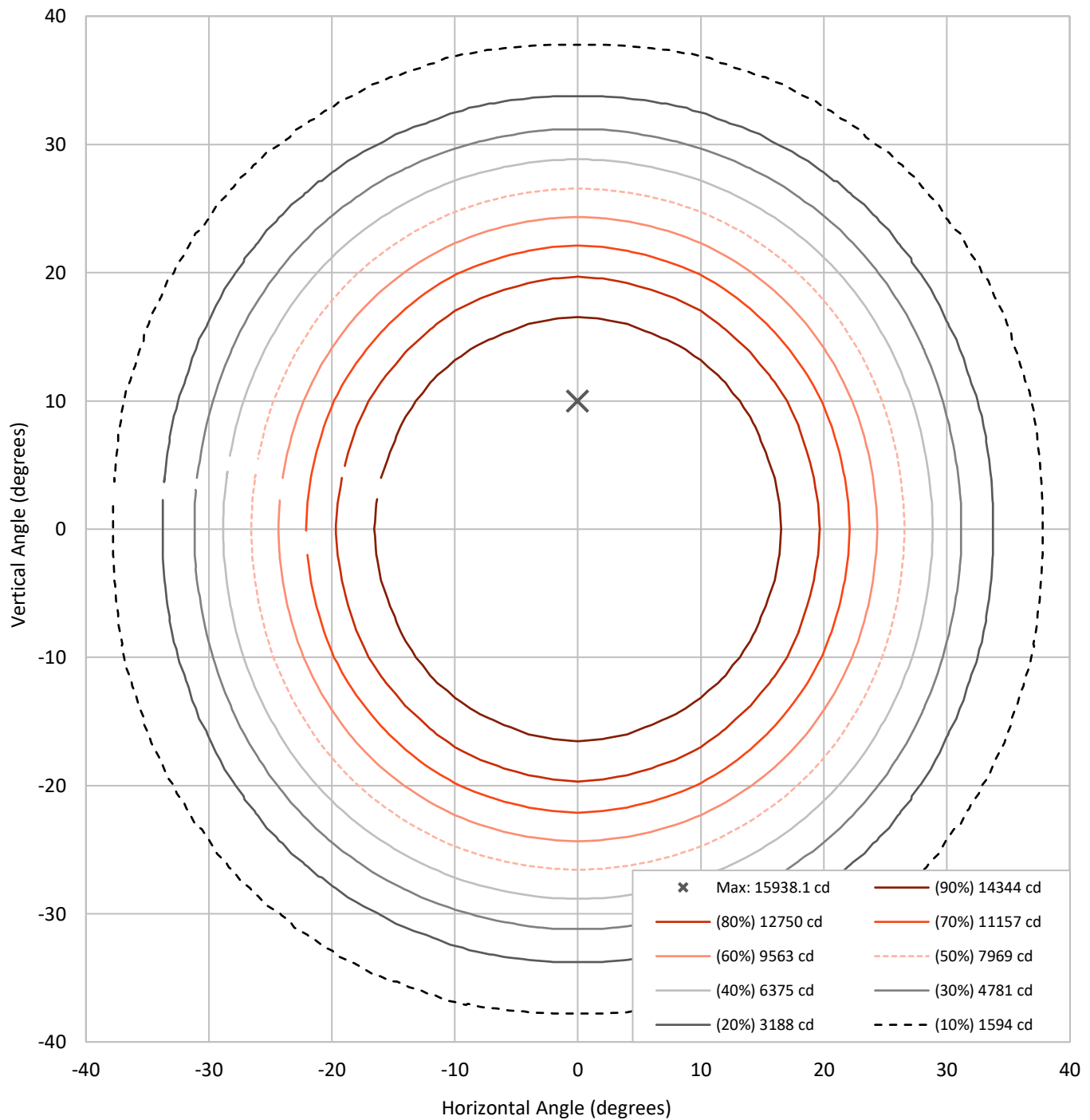
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P623759

CATALOG NUMBER: IFLD-S-SA3B-827-U-55

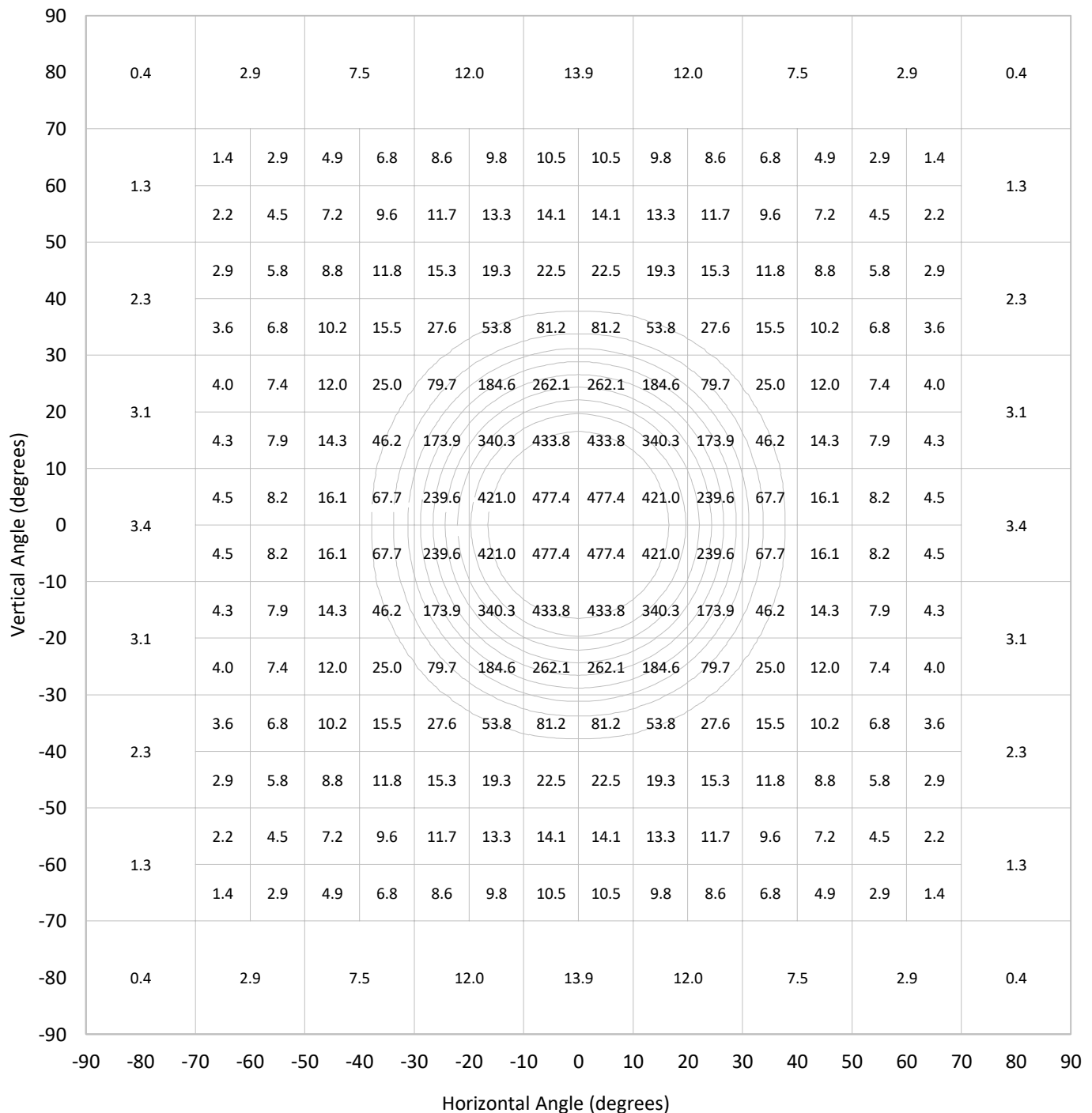
Iso-Candela Plot



REPORT NUMBER: P623759

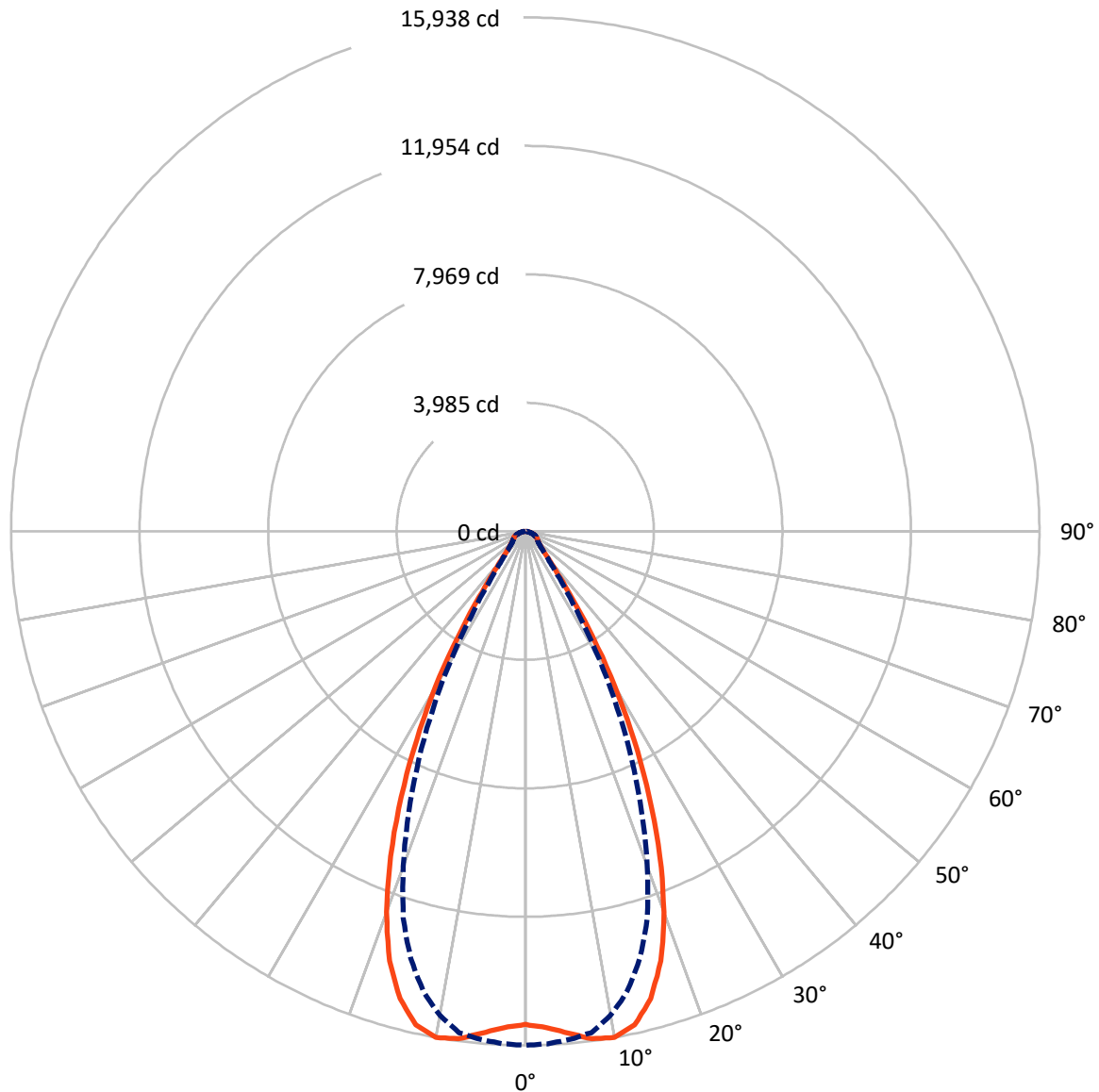
CATALOG NUMBER: IFLD-S-SA3B-827-U-55

Lumen Table



REPORT NUMBER: P623759
CATALOG NUMBER: IFLD-S-SA3B-827-U-55

Luminous Intensity Polar Plot

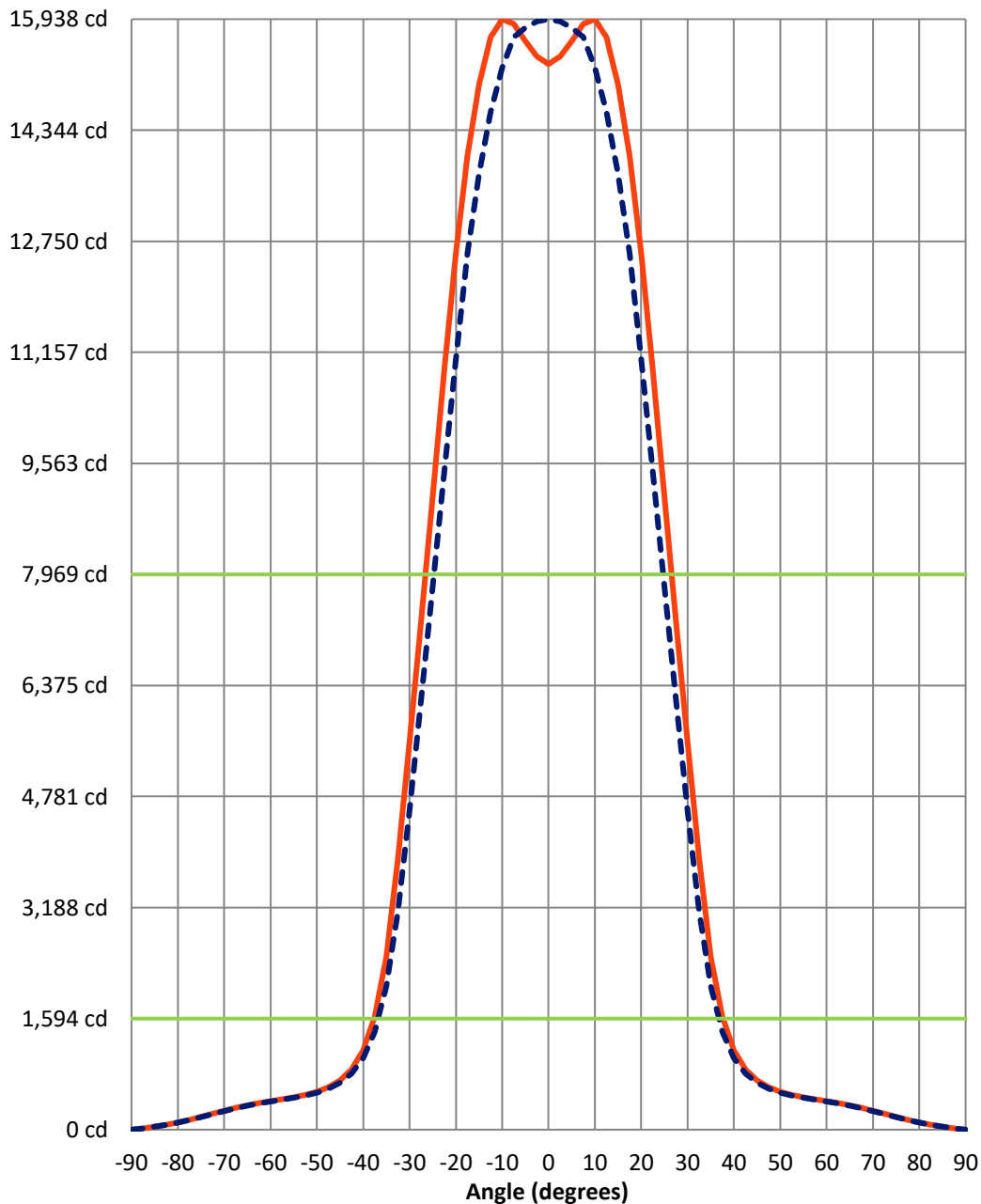


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

REPORT NUMBER: P623759

CATALOG NUMBER: IFLD-S-SA3B-827-U-55

Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 6482.3
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 8430.4
Efficiency: 64.6%

Spill:

Lumens: 4611.8
Efficiency: 35.4%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 10-Deg

REPORT NUMBER: P623759

CATALOG NUMBER: IFLD-S-SA3B-827-U-55

FIELD
BEAM

CANDELA DISTRIBUTION:

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	16.3	16.3	16.3	16.3
85°	43.4	43.4	43.4	43.4	43.4	42.0	42.0	40.6	40.6	39.3	37.9
82.5°	70.5	70.5	70.5	70.5	69.1	69.1	67.7	66.4	65.0	63.7	62.3
80°	103.0	103.0	103.0	103.0	101.6	100.3	98.9	97.5	94.8	93.5	90.8
77.5°	140.9	140.9	140.9	139.5	138.2	136.8	134.1	131.4	128.7	126.0	123.3
75°	184.3	184.3	184.3	181.5	180.2	177.5	174.8	172.1	168.0	163.9	159.9
72.5°	229.0	229.0	229.0	226.3	223.5	220.8	218.1	214.1	210.0	204.6	199.2
70°	271.0	271.0	271.0	268.3	265.5	262.8	258.8	254.7	249.3	243.9	238.4
67.5°	314.3	314.3	314.3	310.3	307.5	304.8	300.8	295.4	289.9	283.2	276.4
65°	349.5	349.5	348.2	346.8	344.1	340.1	337.3	331.9	326.5	321.1	314.3
62.5°	382.1	382.1	380.7	379.3	376.6	372.6	368.5	364.4	359.0	352.3	345.5
60°	409.2	409.2	407.8	406.4	403.7	401.0	397.0	392.9	387.5	382.1	375.3
57.5°	436.3	436.3	434.9	433.5	430.8	426.8	422.7	418.6	413.2	406.4	399.7
55°	464.7	464.7	463.3	460.6	457.9	453.9	449.8	444.4	437.6	430.8	424.1
52.5°	498.6	498.6	495.9	493.2	489.1	485.0	478.3	471.5	463.3	455.2	447.1
50°	543.3	543.3	540.6	536.5	529.7	523.0	514.8	504.0	494.5	483.7	472.8
47.5°	609.7	609.7	604.2	597.5	588.0	577.2	562.2	546.0	532.4	518.9	502.6
45°	707.2	707.2	699.1	688.2	673.3	654.4	632.7	609.7	586.6	563.6	540.6
42.5°	865.7	865.7	850.8	831.9	806.1	773.6	733.0	695.0	662.5	625.9	594.8
40°	1139.4	1139.4	1111.0	1075.7	1027.0	964.6	890.1	830.5	773.6	709.9	666.6
37.5°	1625.8	1625.8	1570.2	1502.5	1407.7	1288.4	1144.8	1048.6	943.0	842.7	769.5
35°	2484.7	2484.7	2377.7	2246.3	2063.4	1833.1	1587.8	1406.3	1204.4	1050.0	913.1
32.5°	3893.7	3893.7	3701.4	3464.3	3137.8	2724.5	2331.6	1986.2	1625.8	1369.7	1123.1
30°	5568.3	5568.3	5316.3	5006.1	4580.6	4044.1	3484.6	2870.9	2301.8	1845.3	1472.7
27.5°	7299.8	7228.0	7011.2	6657.6	6172.6	5568.3	4870.6	4078.0	3308.5	2503.7	1971.3
25°	9090.8	9006.8	8758.9	8352.5	7797.0	7112.8	6327.0	5440.9	4491.2	3532.0	2610.7
22.5°	10900.9	10806.0	10524.2	10064.9	9441.7	8674.9	7784.8	6799.8	5739.0	4630.8	3532.0
20°	12574.1	12473.8	12178.5	11700.2	11055.3	10214.0	9225.0	8133.0	6959.7	5739.0	4491.2
17.5°	13974.9	13878.8	13594.2	13137.7	12574.1	11643.3	10615.0	9414.6	8133.0	6799.8	5440.9
15°	14997.8	14915.2	14672.7	14289.3	13714.8	12891.1	11843.8	10615.0	9225.0	7784.8	6327.0
12.5°	15676.6	15610.2	15419.2	15121.1	14606.3	13915.3	12891.1	11643.3	10214.0	8674.9	7112.8
10°	15938.1	15905.6	15816.1	15679.3	15240.3	14606.3	13714.8	12574.1	11055.3	9441.7	7797.0
7.5°	15869.0	15879.8	15911.0	15875.8	15679.3	15121.1	14289.3	13137.7	11700.2	10064.9	8352.5
5°	15622.4	15680.7	15825.6	15911.0	15816.1	15419.2	14672.7	13594.2	12178.5	10524.2	8758.9
2.5°	15402.9	15493.7	15680.7	15879.8	15905.6	15610.2	14915.2	13878.8	12473.8	10806.0	9006.8
0°	15294.5	15402.9	15622.4	15869.0	15938.1	15676.6	14997.8	13974.9	12574.1	10900.9	9090.8

REPORT NUMBER: P623759

CATALOG NUMBER: IFLD-S-SA3B-827-U-55

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.3	14.9	14.9	14.9	13.5	13.5	13.5	12.2	12.2	10.8	10.8
85°	37.9	36.6	35.2	33.9	32.5	31.2	29.8	28.5	27.1	24.4	23.0
82.5°	61.0	59.6	58.3	55.5	54.2	51.5	48.8	46.1	43.4	42.0	39.3
80°	88.1	85.4	82.6	79.9	75.9	71.8	69.1	65.0	62.3	58.3	55.5
77.5°	119.2	115.2	111.1	105.7	101.6	97.5	92.1	88.1	82.6	77.2	71.8
75°	154.4	149.0	142.3	136.8	131.4	124.6	117.9	111.1	104.3	97.5	90.8
72.5°	192.4	185.6	178.8	172.1	163.9	154.4	146.3	136.8	128.7	120.6	111.1
70°	231.7	223.5	215.4	207.3	197.8	187.0	177.5	166.6	155.8	145.0	134.1
67.5°	268.3	260.1	250.6	242.5	231.7	220.8	208.6	196.4	184.3	170.7	157.2
65°	306.2	296.7	285.9	275.0	264.2	252.0	239.8	227.6	212.7	197.8	184.3
62.5°	337.3	329.2	319.7	308.9	296.7	283.2	271.0	254.7	239.8	224.9	207.3
60°	367.2	357.7	349.5	337.3	326.5	314.3	299.4	283.2	266.9	249.3	233.0
57.5°	392.9	384.8	375.3	364.4	352.3	340.1	326.5	311.6	292.6	275.0	256.1
55°	415.9	406.4	397.0	387.5	376.6	363.1	349.5	334.6	318.4	299.4	279.1
52.5°	439.0	429.5	418.6	409.2	397.0	384.8	371.2	356.3	340.1	322.4	300.8
50°	462.0	451.2	440.3	428.1	415.9	403.7	390.2	376.6	359.0	341.4	322.4
47.5°	489.1	475.5	462.0	448.4	436.3	421.3	407.8	392.9	378.0	359.0	340.1
45°	523.0	502.6	486.4	470.1	455.2	440.3	424.1	409.2	392.9	376.6	356.3
42.5°	565.0	537.9	516.2	494.5	475.5	457.9	441.7	424.1	407.8	390.2	371.2
40°	621.9	585.3	550.1	523.0	498.6	476.9	457.9	440.3	421.3	403.7	384.8
37.5°	696.4	644.9	596.1	556.8	525.7	498.6	475.5	455.2	436.3	415.9	397.0
35°	808.8	719.4	657.1	600.2	556.8	523.0	494.5	470.1	448.4	428.1	409.2
32.5°	967.3	829.1	728.9	657.1	596.1	550.1	516.2	486.4	462.0	440.3	418.6
30°	1176.0	985.0	829.1	719.4	644.9	585.3	537.9	502.6	475.5	451.2	429.5
27.5°	1506.6	1176.0	967.3	808.8	696.4	621.9	565.0	523.0	489.1	462.0	439.0
25°	1971.3	1472.7	1123.1	913.1	769.5	666.6	594.8	540.6	502.6	472.8	447.1
22.5°	2503.7	1845.3	1369.7	1050.0	842.7	709.9	625.9	563.6	518.9	483.7	455.2
20°	3308.5	2301.8	1625.8	1204.4	943.0	773.6	662.5	586.6	532.4	494.5	463.3
17.5°	4078.0	2870.9	1986.2	1406.3	1048.6	830.5	695.0	609.7	546.0	504.0	471.5
15°	4870.6	3484.6	2331.6	1587.8	1144.8	890.1	733.0	632.7	562.2	514.8	478.3
12.5°	5568.3	4044.1	2724.5	1833.1	1288.4	964.6	773.6	654.4	577.2	523.0	485.0
10°	6172.6	4580.6	3137.8	2063.4	1407.7	1027.0	806.1	673.3	588.0	529.7	489.1
7.5°	6657.6	5006.1	3464.3	2246.3	1502.5	1075.7	831.9	688.2	597.5	536.5	493.2
5°	7011.2	5316.3	3701.4	2377.7	1570.2	1111.0	850.8	699.1	604.2	540.6	495.9
2.5°	7228.0	5568.3	3893.7	2484.7	1625.8	1139.4	865.7	707.2	609.7	543.3	498.6
0°	7299.8	5568.3	3893.7	2484.7	1625.8	1139.4	865.7	707.2	609.7	543.3	498.6

REPORT NUMBER: P623759

CATALOG NUMBER: IFLD-S-SA3B-827-U-55

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	9.5	8.1	8.1	6.8	6.8	5.4	5.4	4.1	4.1	2.7
85°	21.7	19.0	17.6	16.3	14.9	13.5	12.2	10.8	9.5	8.1	6.8
82.5°	36.6	33.9	29.8	27.1	24.4	21.7	17.6	16.3	13.5	10.8	9.5
80°	51.5	47.4	43.4	39.3	35.2	31.2	27.1	23.0	19.0	14.9	12.2
77.5°	66.4	61.0	56.9	51.5	46.1	40.6	35.2	29.8	24.4	19.0	14.9
75°	84.0	77.2	70.5	63.7	56.9	50.1	44.7	37.9	31.2	24.4	19.0
72.5°	103.0	93.5	85.4	77.2	67.7	61.0	52.8	46.1	37.9	29.8	23.0
70°	123.3	112.4	101.6	90.8	81.3	70.5	62.3	52.8	44.7	35.2	27.1
67.5°	143.6	131.4	119.2	105.7	93.5	82.6	70.5	61.0	50.1	40.6	31.2
65°	168.0	151.7	136.8	121.9	107.0	93.5	81.3	67.7	56.9	46.1	35.2
62.5°	191.0	173.4	155.8	138.2	121.9	105.7	90.8	77.2	63.7	51.5	39.3
60°	214.1	195.1	174.8	155.8	136.8	119.2	101.6	85.4	70.5	56.9	43.4
57.5°	237.1	215.4	195.1	173.4	151.7	131.4	112.4	93.5	77.2	61.0	47.4
55°	257.4	237.1	214.1	191.0	168.0	143.6	123.3	103.0	84.0	66.4	51.5
52.5°	279.1	256.1	233.0	207.3	184.3	157.2	134.1	111.1	90.8	71.8	55.5
50°	299.4	275.0	249.3	224.9	197.8	170.7	145.0	120.6	97.5	77.2	58.3
47.5°	318.4	292.6	266.9	239.8	212.7	184.3	155.8	128.7	104.3	82.6	62.3
45°	334.6	311.6	283.2	254.7	227.6	196.4	166.6	136.8	111.1	88.1	65.0
42.5°	349.5	326.5	299.4	271.0	239.8	208.6	177.5	146.3	117.9	92.1	69.1
40°	363.1	340.1	314.3	283.2	252.0	220.8	187.0	154.4	124.6	97.5	71.8
37.5°	376.6	352.3	326.5	296.7	264.2	231.7	197.8	163.9	131.4	101.6	75.9
35°	387.5	364.4	337.3	308.9	275.0	242.5	207.3	172.1	136.8	105.7	79.9
32.5°	397.0	375.3	349.5	319.7	285.9	250.6	215.4	178.8	142.3	111.1	82.6
30°	406.4	384.8	357.7	329.2	296.7	260.1	223.5	185.6	149.0	115.2	85.4
27.5°	415.9	392.9	367.2	337.3	306.2	268.3	231.7	192.4	154.4	119.2	88.1
25°	424.1	399.7	375.3	345.5	314.3	276.4	238.4	199.2	159.9	123.3	90.8
22.5°	430.8	406.4	382.1	352.3	321.1	283.2	243.9	204.6	163.9	126.0	93.5
20°	437.6	413.2	387.5	359.0	326.5	289.9	249.3	210.0	168.0	128.7	94.8
17.5°	444.4	418.6	392.9	364.4	331.9	295.4	254.7	214.1	172.1	131.4	97.5
15°	449.8	422.7	397.0	368.5	337.3	300.8	258.8	218.1	174.8	134.1	98.9
12.5°	453.9	426.8	401.0	372.6	340.1	304.8	262.8	220.8	177.5	136.8	100.3
10°	457.9	430.8	403.7	376.6	344.1	307.5	265.5	223.5	180.2	138.2	101.6
7.5°	460.6	433.5	406.4	379.3	346.8	310.3	268.3	226.3	181.5	139.5	103.0
5°	463.3	434.9	407.8	380.7	348.2	314.3	271.0	229.0	184.3	140.9	103.0
2.5°	464.7	436.3	409.2	382.1	349.5	314.3	271.0	229.0	184.3	140.9	103.0
0°	464.7	436.3	409.2	382.1	349.5	314.3	271.0	229.0	184.3	140.9	103.0

REPORT NUMBER: P623759

CATALOG NUMBER: IFLD-S-SA3B-827-U-55

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	2.7	1.4	1.4	0.0
85°	4.1	2.7	1.4	0.0
82.5°	6.8	4.1	2.7	0.0
80°	9.5	6.8	2.7	0.0
77.5°	10.8	8.1	4.1	0.0
75°	13.5	9.5	4.1	0.0
72.5°	16.3	10.8	5.4	0.0
70°	17.6	12.2	5.4	0.0
67.5°	21.7	13.5	6.8	0.0
65°	24.4	14.9	6.8	0.0
62.5°	27.1	16.3	8.1	0.0
60°	29.8	17.6	8.1	0.0
57.5°	33.9	19.0	9.5	0.0
55°	36.6	21.7	9.5	0.0
52.5°	39.3	23.0	10.8	0.0
50°	42.0	24.4	10.8	0.0
47.5°	43.4	27.1	12.2	0.0
45°	46.1	28.5	12.2	0.0
42.5°	48.8	29.8	13.5	0.0
40°	51.5	31.2	13.5	0.0
37.5°	54.2	32.5	13.5	0.0
35°	55.5	33.9	14.9	0.0
32.5°	58.3	35.2	14.9	0.0
30°	59.6	36.6	14.9	0.0
27.5°	61.0	37.9	16.3	0.0
25°	62.3	37.9	16.3	0.0
22.5°	63.7	39.3	16.3	0.0
20°	65.0	40.6	16.3	0.0
17.5°	66.4	40.6	16.3	0.0
15°	67.7	42.0	17.6	0.0
12.5°	69.1	42.0	17.6	0.0
10°	69.1	43.4	17.6	0.0
7.5°	70.5	43.4	17.6	0.0
5°	70.5	43.4	17.6	0.0
2.5°	70.5	43.4	17.6	0.0
0°	70.5	43.4	17.6	0.0

(END OF REPORT)